

Visakh Vaikuntanathan

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

412
citations

840119

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752256

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g-index

27
all docs

27
docs citations

27
times ranked

486
citing authors

#	ARTICLE	IF	CITATIONS
1	An investigation of grouping of two falling dissimilar droplets using the homotopy analysis method. Applied Mathematical Modelling, 2022, 104, 486-498.	2.2	8
2	Celebration of Professor Bernhard Weigand on his 60th birthday. International Journal of Heat and Mass Transfer, 2022, 188, 122626.	2.5	0
3	An Analytical Study on the Mechanism of Grouping of Droplets. Fluids, 2022, 7, 172.	0.8	1
4	Direct Numerical Simulations of Grouping Effects in Droplet Streams Using Different Boundary Conditions. , 2021, 1, .		2
5	On the crown rim expansion kinematics during droplet impact on wall-films. Experimental Thermal and Fluid Science, 2020, 118, 110168.	1.5	8
6	Droplet mobilization at the walls of a microfluidic channel. Physics of Fluids, 2020, 32, .	1.6	32
7	A New Perspective for the Characterization of Crown Rim Kinematics. Fluid Mechanics and Its Applications, 2020, , 163-175.	0.1	2
8	Impact of a Linear Array of Hydrophilic and Superhydrophobic Spheres on a Deep Water Pool. Colloids and Interfaces, 2019, 3, 29.	0.9	1
9	Splashing characteristics of diesel exhaust fluid (AdBlue) droplets impacting on urea-water solution films. Experimental Thermal and Fluid Science, 2019, 102, 152-162.	1.5	26
10	Flow turbulence topology in regular porous media: From macroscopic to microscopic scale with direct numerical simulation. Physics of Fluids, 2018, 30, .	1.6	41
11	An experimental study on the equilibrium shape of water drops impacted on groove-textured surfaces. Experimental Thermal and Fluid Science, 2017, 87, 129-140.	1.5	8
12	Impact dynamics of alternative jet fuel drops on heated stainless steel surface. International Journal of Thermal Sciences, 2017, 121, 99-110.	2.6	20
13	Impingement of Aviation Fuel Drop on Stainless Steel Surface. Lecture Notes in Mechanical Engineering, 2017, , 969-977.	0.3	0
14	Comment on "Approaching the theoretical contact time of a bouncing droplet on the rational macrostructured superhydrophobic surfaces" [Appl. Phys. Lett. 107, 111604 (2015)]. Applied Physics Letters, 2016, 108, .	1.5	1
15	Effect of wetting difference across junction on dynamics of drops impacting on the junction of dual-textured surfaces. AIChE Journal, 2016, 62, 4109-4118.	1.8	3
16	Superhydrophobic qualities of an aluminum surface coated with hydrophobic solution NeverWet. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 500, 45-53.	2.3	38
17	Maximum Spreading of Liquid Drops Impacting on Groove-Textured Surfaces: Effect of Surface Texture. Langmuir, 2016, 32, 2399-2409.	1.6	67
18	Transition from Cassie to impaled state during drop impact on groove-textured solid surfaces. Soft Matter, 2014, 10, 2991.	1.2	22

#	ARTICLE	IF	CITATIONS
19	Impact dynamics of high Weber number drops on chemically modified metallic surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 459, 109-119.	2.3	16
20	Experimental investigation of biofuel drop impact on stainless steel surface. <i>Experimental Thermal and Fluid Science</i> , 2014, 54, 38-46.	1.5	31
21	Directional motion of impacting drops on dual-textured surfaces. <i>Physical Review E</i> , 2012, 86, 036315.	0.8	10
22	Dynamic contact angle beating from drops impacting onto solid surfaces exhibiting anisotropic wetting. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 386, 36-44.	2.3	20
23	Impact of water drops onto the junction of a hydrophobic texture and a hydrophilic smooth surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 369, 65-74.	2.3	54
24	Video: Impact of a linear array of hydrophilic and superhydrophobic spheres on water pool. , 0, , .		1
25	Investigation of droplet grouping in monodisperse streams by direct numerical simulations. <i>Physics of Fluids</i> , 0, , .	1.6	0